

## Exhibit 6: Department of Fish & Game Scope of Work

### **EXHIBIT A RANCHO LA VINA BANK RESTORATION PROJECT SCOPE OF WORK**

Under direction of the Grantor, and under the following conditions and terms, the Grantee shall:

1. Improve water quality and rearing habitat by reducing fine sediment and agricultural run-off as well as increasing habitat diversity through re-establishing the riparian canopy for southern steelhead in the Santa Ynez River in northern Santa Barbara County. The objective is to recreate and stabilize 1,600 feet of bank and floodplain terrace utilizing at least 25 willow baffles and over 2,000 native trees and shrubs; thereby reducing approximately 63,400 cubic yards of sediment from entering the system and increasing riparian by 50 percent.
2. Conduct work on Santa Ynez River approximately 23.5 miles upstream from the Pacific Ocean and 8 miles upstream of the confluence of Salsipuedes Creek. The project is located in Township 6N, Range 33W, Section 9 of the Lompoc Hills 7.5 Minute U.S.G.S. Quadrangle, 34.37 N, 120.20 W as depicted in Attachment 1, Project Location Map, which is attached and made part of this agreement by this reference.
3. Approximately 1600 feet of vertical river bank will be stabilized to reduce sediment input to the river by a combination of grading, planting and stabilization structures. The 30 foot high, nearly vertical bank will be graded to a 2:1 slope using a cut and fill method, for the top 20 ft. There will be an approximate 12 ft. planted relief terrace at bankfull, which will transition to a 3:1 slope down to waters edge. Twenty-five, 45 foot long, willow siltation baffles will be installed, perpendicular to the flow along this 3:1 slope every 60 feet along the 1500 ft. long project site. The 2:1 slope will be covered with coir erosion control fabric then planted. An additional vegetated buffer of 20 feet will be created along the 1600 foot long stretch by planting as described in Attachment 2, Site Diagrams, which is attached and made part of this agreement by this reference. In all, at least 2000 native trees and shrubs will be planted over the 1.1 acres of the project site. To accomplish this work the following tasks will be undertaken:
  - a. All necessary hydraulic, longitudinal and biological surveys will be completed.
  - b. An access ramp to the river will be built to enable equipment to temporarily divert the river away from the worksite by trenching a channel through the gravel bar and installing culverts and coffer dams. Any native fish will be removed and placed in suitable habitat upstream.
  - c. Material from the gravel bar will be used to build the 3:1 slope. Material will be compacted. Willow masses colonizing on the gravel bar will be saved and used in baffle trenches. CCC crews will cut willow for baffles.
  - d. From top of bank working from upstream to downstream, an excavator and loader will cut, fill and grade to the relief terrace. Willow siltation baffles will be installed by digging a 3' foot trench, placing cut and willow masses in trench and back filling. The 2:1 slope will then be constructed.
  - e. Water diversion and access will be taken out and graded to original contour.
  - f. CCC crews will broadcast native seed on bank, and place coir erosion control fabric over 2:1 slope.
  - g. CCC crews will plant 2000 native trees and shrubs along terrace, 2:1 slope, and top of slope. Tree and shrub species include cottonwood, willow, mulefat, black walnut, coast live oak, elderberry,

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4. Grantee will obtain all permits and approvals required for the proposed project. The following permits may be needed prior to the proposed restoration project:
  - U.S. Army Corps of Engineers 404 permit
  - Section 7 consultation with NOAA Fisheries and U.S. Fish and Wildlife Service
  - Regional Water Quality Control Board Water Discharge Requirements/State Water Certification 401 permit
  - California Department of Fish & Game Streambed Alteration Agreement
  - County of Santa Barbara Flood Control permit
5. Work in flowing streams is restricted to June 15 through October 31. Actual project start and end dates, within this timeframe, are at the discretion of the Department of Fish and Game. Planting of tree seedlings shall take place after December 1 or when sufficient rainfall has occurred to ensure the best chance of survival of the seedlings. The standard for success is 80% survival of plantings, after a period of three years.
6. The Grantee shall notify the Grantor's Project Manager a minimum of five working days before any fish bearing stream reaches are dewatered and the stream flow diverted. The notification shall provide a reasonable time for Department personnel to supervise the implementation of the water diversion plan and oversee the safe removal and relocation of salmonids and other aquatic species from the project area. If the project requires dewatering of the site, and the relocation of salmonids, the Grantee shall implement the following measures to minimize harm and mortality to listed salmonids:
  - Fish relocation and dewatering activities shall only occur between June 15 and October 31 of each year.
  - The Grantee shall minimize the amount of wetted stream channel dewatered at each individual project site to the fullest extent possible.
  - All electrofishing shall be performed by a qualified fisheries biologist and conducted according to the National Marine Fisheries Service, *Guidelines for Electrofishing Waters Containing Salmonids Listed Under the Endangered Species Act*, June 2000.
  - The Grantee shall provide fish relocation data to the Grantor's Project Manager on a form provided by the Department of Fish and Game.
  - Additional measures to minimize injury and mortality of salmonids during fish relocation and dewatering activities shall be implemented as described in Part IX, pages 52 and 53 of the *California Salmonid Stream Habitat Restoration Manual*.
7. All habitat improvements shall follow techniques described in the Third Edition, January 1998, of the California Salmonid Stream Habitat Restoration Manual, Flosi et al. and the California Salmonid Stream Restoration Manual, Third Edition, Volume II, Part XI, January 2004.
8. Upon completion of the project, the Grantee shall submit two hard copies of a final written report and one electronic, *Microsoft Word* compatible, copy on 3.5 inch floppy disk(s) or CD. If the project is not completed in the current year, the Grantee shall submit a summary of the completed portion no later than December 31 and again each year until completed. The report shall include, but not necessarily be limited to the following information: (1) Grant number, (2) project name; (3) geographic area (e.g., watershed name); (4) location of work – show project location using U.S.G.S. 7.5 minute topographical map or appropriately scaled topographical map; (5) geospatial reference/location (lat/long is preferred – defined as point, line, or polygon); (6) project start and end dates and the number of person hours expended; (7) total of each fund source, by line item, expended to complete the project, breaking down Grant dollars, by line item, and any other funding, including type of match (cash or in-kind service); (8) expected benefits to anadromous salmonids from the project; (9) labeled before and after photographs of any restoration activities and techniques; (10) specific project access using public and private roads and trails, with landowner name and address; (11) complete as-built project description; and (12) report measurable metrics for the project by responding to the restoration project metrics listed below.

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**Habitat Protection and Restoration Projects– Reporting Metrics (HS)** (Report N/A to those that do not apply)

Habitat Projects: (all)

- Identify the watershed/sub-basin plan or assessment in which the project is identified as a priority.
- Name the priority habitat limiting factors identified in that plan that are addressed by the project
- Type of monitoring included in the project
  - ✓ Design spec achieved
  - ✓ Fish movement/abundance
- Number of stream miles treated/affected by the project within the project boundaries.

Riparian Habitat Projects (HS)

- Number of miles treated (e.g., fenced)
- Number of acres treated (e.g., planted)
- Number of acres and type of invasive species controlled
- Species and size of trees planted
- Number of trees/density of plantings
- Number of feet of stream bank stabilized and treatments used.

The Grantee shall acknowledge the participation of the Department of Fish and Game, Fishery Restoration Grant Program funds on any signs, flyers, or other types of written communication or notice to advertise or explain the Rancho La Vina Bank Restoration Project.